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Pre-Amdt A

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| Applicant   | Michael M. Walters et al. | <b><u>PRELIMINARY</u></b><br><b><u>AMENDMENT</u></b> |
| Patent No.  | 6,278,263                 |  |
| Issue Date  | August 21, 2001           |  |
| Group Art Unit                                      | Not Assigned              |  |
| Examiner Name                                       | Not Assigned              |  |
| Attorney Docket No.                                 | 125.028USR1               |  |
| Title: MULTI-PHASE CONVERTER WITH BALANCED CURRENTS |                           |  |

Commissioner for Patents  
Washington, D.C. 20231

Prior to initial review, please add the following new claims:

**IN THE CLAIMS**

19. A method of balancing a plurality of channel currents, each of the plurality of channel currents flowing in a corresponding one of a plurality of channels in a multi-phase DC/DC converter, the DC/DC converter having an output voltage, the method comprising:

receiving a plurality of channel current signals, each of the plurality of channel current signals representative of a channel current for one of the plurality of channel currents;

averaging together the plurality of channel current signals to thereby determine an average channel current signal;

comparing a signal representative of the output voltage to a reference signal to thereby determine an error signal; and

controlling the channel currents based at least in part on the average channel current signal, one of the plurality of channel current signals, a reference signal and the error signal.

20. The method of claim 19, wherein controlling the channel currents comprises:

generating a plurality of pulse width modulated signals for the plurality of channels to selectively control the channel currents, each of the plurality of pulse width

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